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REQUEST

The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty.

PCT/4503/34636

For receiving Office use only

PCT/US 03/34636

31 OCT 03 (31.10.03)
International Filing Date

PCT INTERNATIONAL APPLICATION
RO/11

Name of receiving Office and "PCT International Application"

Applicant's or agent's file reference
(if desired) (12 characters maximum) 21108.0017P1

| | |
|--|--|
| Box No. I TITLE OF INVENTION HYDROXYFLUTAMIDE INDUCED PATHWAYS RELATED TO ANDROGEN RECEPTOR NEGATIVE PROSTATE CANCER CELLS | |
|--|--|

| | |
|---|--|
| Box No. II APPLICANT <input type="checkbox"/> This person is also inventor | |
|---|--|

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)

UNIVERSITY OF ROCHESTER
601 Elmwood Avenue, Box 706
Rochester, New York 14642
United States of America

Telephone No.

Facsimile No.

Teleprinter No.

Applicant's registration No. with the Office

| | |
|--|--|
| State (that is, country) of nationality: US | State (that is, country) of residence: US |
|--|--|

This person is applicant all designated States all designated States except the United States of America the United States of America only the States indicated in the Supplemental Box

Box No. III FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S)

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)

CHANG, Chawnshang
19 Sandy Lane
Pittsford, New York 14534
United States of America

This person is:

applicant only

applicant and inventor

inventor only (If this check-box is marked, do not fill in below.)

Applicant's registration No. with the Office

| | |
|--|--|
| State (that is, country) of nationality: US | State (that is, country) of residence: US |
|--|--|

This person is applicant all designated States all designated States except the United States of America the United States of America only the States indicated in the Supplemental Box

Further applicants and/or (further) inventors are indicated on a continuation sheet.

Box No. IV AGENT OR COMMON REPRESENTATIVE; OR ADDRESS FOR CORRESPONDENCE

The person identified below is hereby/has been appointed to act on behalf of the applicant(s) before the competent International Authorities as: agent common representative

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)

HUIZENGA, David E.
Needle & Rosenberg, P.C.
999 Peachtree Street, Suite 1000
Atlanta, Georgia 30309-3915
United States of America

Telephone No.

(678) 420-9300

Facsimile No.

(678) 420-9301

Teleprinter No.

Agent's registration No. with the Office
49,026

Address for correspondence: Mark this check-box where no agent or common representative is/has been appointed and the space above is used instead to indicate a special address to which correspondence should be sent.

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Continuation of Box No. III FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S)

If none of the following sub-boxes is used, this sheet should not be included in the request.

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)

LEE, Yi-Fen
182 Raleigh Street
Rochester, New York 14620
United States of America

This person is:

applicant only
 applicant and inventor
 inventor only (If this check-box is marked, do not fill in below.)

Applicant's registration No. with the Office

State (that is, country) of nationality:
USState (that is, country) of residence:
US

This person is applicant for the purposes of: all designated States all designated States except the United States of America the United States of America only the States indicated in the Supplemental Box

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)

LIN, Wen-Jye
301 University Park
Rochester, New York 14620
United States of America

This person is:

applicant only
 applicant and inventor
 inventor only (If this check-box is marked, do not fill in below.)

Applicant's registration No. with the Office

State (that is, country) of nationality:
USState (that is, country) of residence:
US

This person is applicant for the purposes of: all designated States all designated States except the United States of America the United States of America only the States indicated in the Supplemental Box

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)

This person is:

applicant only
 applicant and inventor
 inventor only (If this check-box is marked, do not fill in below.)

Applicant's registration No. with the Office

State (that is, country) of nationality:

State (that is, country) of residence:

This person is applicant for the purposes of: all designated States all designated States except the United States of America the United States of America only the States indicated in the Supplemental Box

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)

This person is:

applicant only
 applicant and inventor
 inventor only (If this check-box is marked, do not fill in below.)

Applicant's registration No. with the Office

State (that is, country) of nationality:

State (that is, country) of residence:

This person is applicant for the purposes of: all designated States all designated States except the United States of America the United States of America only the States indicated in the Supplemental Box

Further applicants and/or (further) inventors are indicated on another continuation sheet.

BEST AVAILABLE COPY

Box No. V DESIGNATION OF STATES

Mark the applicable check-boxes below; at least one must be marked.

The following designations are hereby made under Rule 4.9(a):

Regional Patent

AP ARIPO Patent: GH Ghana, GM Gambia, KE Kenya, LS Lesotho, MW Malawi, MZ Mozambique, SD Sudan, SL Sierra Leone, SZ Swaziland, TZ United Republic of Tanzania, UG Uganda, ZM Zambia, ZW Zimbabwe, and any other State which is a Contracting State of the Harare Protocol and of the PCT (if other kind of protection or treatment desired, specify on dotted line)

EA Eurasian Patent: AM Armenia, AZ Azerbaijan, BY Belarus, KG Kyrgyzstan, KZ Kazakhstan, MD Republic of Moldova, RU Russian Federation, TJ Tajikistan, TM Turkmenistan, and any other State which is a Contracting State of the Eurasian Patent Convention and of the PCT

EP European Patent: AT Austria, BE Belgium, BG Bulgaria, CH & LI Switzerland and Liechtenstein, CY Cyprus, CZ Czech Republic, DE Germany, DK Denmark, EE Estonia, ES Spain, FI Finland, FR France, GB United Kingdom, GR Greece, IE Ireland, IT Italy, LU Luxembourg, MC Monaco, NL Netherlands, PT Portugal, SE Sweden, SI Slovenia, SK Slovakia, TR Turkey, and any other State which is a Contracting State of the European Patent Convention and of the PCT

OA OAPI Patent: BF Burkina Faso, BJ Benin, CF Central African Republic, CG Congo, CI Côte d'Ivoire, CM Cameroon, GA Gabon, GN Guinea, GQ Equatorial Guinea, GW Guinea-Bissau, ML Mali, MR Mauritania, NE Niger, SN Senegal, TD Chad, TG Togo, and any other State which is a member State of OAPI and a Contracting State of the PCT (if other kind of protection or treatment desired, specify on dotted line)

National Patent (if other kind of protection or treatment desired, specify on dotted line):

| | | |
|---|--|---|
| <input checked="" type="checkbox"/> AE United Arab Emirates | <input checked="" type="checkbox"/> GM Gambia | <input checked="" type="checkbox"/> NZ New Zealand |
| <input checked="" type="checkbox"/> AG Antigua and Barbuda | <input checked="" type="checkbox"/> HR Croatia | <input checked="" type="checkbox"/> OM Oman |
| <input checked="" type="checkbox"/> AL Albania | <input checked="" type="checkbox"/> HU Hungary | <input checked="" type="checkbox"/> PH Philippines |
| <input checked="" type="checkbox"/> AM Armenia | <input checked="" type="checkbox"/> ID Indonesia | <input checked="" type="checkbox"/> PL Poland |
| <input checked="" type="checkbox"/> AT Austria | <input checked="" type="checkbox"/> IL Israel | <input checked="" type="checkbox"/> PT Portugal |
| <input checked="" type="checkbox"/> AU Australia | <input checked="" type="checkbox"/> IN India | <input checked="" type="checkbox"/> RO Romania |
| <input checked="" type="checkbox"/> AZ Azerbaijan | <input checked="" type="checkbox"/> IS Iceland | <input checked="" type="checkbox"/> RU Russian Federation |
| <input checked="" type="checkbox"/> BA Bosnia and Herzegovina | <input checked="" type="checkbox"/> JP Japan | <input checked="" type="checkbox"/> SC Seychelles |
| <input checked="" type="checkbox"/> BB Barbados | <input checked="" type="checkbox"/> KE Kenya | <input checked="" type="checkbox"/> SD Sudan |
| <input checked="" type="checkbox"/> BG Bulgaria | <input checked="" type="checkbox"/> KG Kyrgyzstan | <input checked="" type="checkbox"/> SE Sweden |
| <input checked="" type="checkbox"/> BR Brazil | <input checked="" type="checkbox"/> KP Democratic People's Republic of Korea | <input checked="" type="checkbox"/> SG Singapore |
| <input checked="" type="checkbox"/> BY Belarus | <input checked="" type="checkbox"/> KR Republic of Korea | <input checked="" type="checkbox"/> SK Slovakia |
| <input checked="" type="checkbox"/> BZ Belize | <input checked="" type="checkbox"/> KZ Kazakhstan | <input checked="" type="checkbox"/> SL Sierra Leone |
| <input checked="" type="checkbox"/> CA Canada | <input checked="" type="checkbox"/> LC Saint Lucia | <input checked="" type="checkbox"/> TJ Tajikistan |
| <input checked="" type="checkbox"/> CH & LI Switzerland and Liechtenstein | <input checked="" type="checkbox"/> LK Sri Lanka | <input checked="" type="checkbox"/> TM Turkmenistan |
| <input checked="" type="checkbox"/> CN China | <input checked="" type="checkbox"/> LR Liberia | <input checked="" type="checkbox"/> TN Tunisia |
| <input checked="" type="checkbox"/> CO Colombia | <input checked="" type="checkbox"/> LS Lesotho | <input checked="" type="checkbox"/> TR Turkey |
| <input checked="" type="checkbox"/> CR Costa Rica | <input checked="" type="checkbox"/> LT Lithuania | <input checked="" type="checkbox"/> TT Trinidad and Tobago |
| <input checked="" type="checkbox"/> CU Cuba | <input checked="" type="checkbox"/> LU Luxembourg | <input checked="" type="checkbox"/> TZ United Republic of Tanzania |
| <input checked="" type="checkbox"/> CZ Czech Republic | <input checked="" type="checkbox"/> LV Latvia | <input checked="" type="checkbox"/> UA Ukraine |
| <input checked="" type="checkbox"/> DE Germany | <input checked="" type="checkbox"/> MA Morocco | <input checked="" type="checkbox"/> UG Uganda |
| <input checked="" type="checkbox"/> DK Denmark | <input checked="" type="checkbox"/> MD Republic of Moldova | <input checked="" type="checkbox"/> US United States of America |
| <input checked="" type="checkbox"/> DM Dominica | <input checked="" type="checkbox"/> MG Madagascar | <input checked="" type="checkbox"/> UZ Uzbekistan |
| <input checked="" type="checkbox"/> DZ Algeria | <input checked="" type="checkbox"/> MK The former Yugoslav Republic of Macedonia | <input checked="" type="checkbox"/> VC Saint Vincent and the Grenadines |
| <input checked="" type="checkbox"/> EC Ecuador | <input checked="" type="checkbox"/> MN Mongolia | <input checked="" type="checkbox"/> VN Viet Nam |
| <input checked="" type="checkbox"/> EE Estonia | <input checked="" type="checkbox"/> MW Malawi | <input checked="" type="checkbox"/> YU Yugoslavia |
| <input checked="" type="checkbox"/> ES Spain | <input checked="" type="checkbox"/> MX Mexico | <input checked="" type="checkbox"/> ZA South Africa |
| <input checked="" type="checkbox"/> FI Finland | <input checked="" type="checkbox"/> MZ Mozambique | <input checked="" type="checkbox"/> ZM Zambia |
| <input checked="" type="checkbox"/> GB United Kingdom | <input checked="" type="checkbox"/> NO Norway | <input checked="" type="checkbox"/> ZW Zimbabwe |
| <input checked="" type="checkbox"/> GD Grenada | | |
| <input checked="" type="checkbox"/> GE Georgia | | |
| <input checked="" type="checkbox"/> GH Ghana | | |

Check-boxes below reserved for designating States which have become party to the PCT after issuance of this sheet:

| | | |
|---|---|---|
| <input checked="" type="checkbox"/> NI Nicaragua | <input checked="" type="checkbox"/> SY Syrian Arab Republic | <input checked="" type="checkbox"/> BW Botswana |
| <input checked="" type="checkbox"/> PG Papua New Guinea | <input checked="" type="checkbox"/> EG Egypt | <input type="checkbox"/> |

Precautionary Designation Statement: In addition to the designations made above, the applicant also makes under Rule 4.9(b) all other designations which would be permitted under the PCT except any designation(s) indicated in the Supplemental Box as being excluded from the scope of this statement. The applicant declares that those additional designations are subject to confirmation and that any designation which is not confirmed before the expiration of 15 months from the priority date is to be regarded as withdrawn by the applicant at the expiration of that time limit. (Confirmation (including fees) must reach the receiving Office within the 15-month time limit.)

Supplemental Box

If the Supplemental Box is not used, this sheet should not be included in the request.

1. If, in any of the Boxes, except Boxes Nos. VIII(i) to (v) for which a special continuation box is provided, the space is insufficient to furnish all the information: in such case, write "Continuation of Box No." (indicate the number of the Box) and furnish the information in the same manner as required according to the captions of the Box in which the space was insufficient, in particular:
 - (i) if more than two persons are to be indicated as applicants and/or inventors and no "continuation sheet" is available: in such case, write "Continuation of Box No. III" and indicate for each additional person the same type of information as required in Box No. III. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below;
 - (ii) if, in Box No. II or in any of the sub-boxes of Box No. III, the indication "the States indicated in the Supplemental Box" is checked: in such case, write "Continuation of Box No. II" or "Continuation of Box No. III" or "Continuation of Boxes No. II and No. III" (as the case may be), indicate the name of the applicant(s) involved and, next to (each) such name, the State(s) (and/or, where applicable, ARIPO, Eurasian, European or OAPI patent) for the purposes of which the named person is applicant;
 - (iii) if, in Box No. II or in any of the sub-boxes of Box No. III, the inventor or the inventor/applicant is not inventor for the purposes of all designated States or for the purposes of the United States of America: in such case, write "Continuation of Box No. II" or "Continuation of Box No. III" or "Continuation of Boxes No. II and No. III" (as the case may be), indicate the name of the inventor(s) and, next to (each) such name, the State(s) (and/or, where applicable, ARIPO, Eurasian, European or OAPI patent) for the purposes of which the named person is inventor;
 - (iv) if, in addition to the agent(s) indicated in Box No. IV, there are further agents: in such case, write "Continuation of Box No. IV" and indicate for each further agent the same type of information as required in Box No. IV;
 - (v) if, in Box No. V, the name of any State (or OAPI) is accompanied by the indication "patent of addition" or "certificate of addition," or if, in Box No. V, the name of the United States of America is accompanied by an indication "continuation" or "continuation-in-part": in such case, write "Continuation of Box No. V" and the name of each State involved (or OAPI), and after the name of each such State (or OAPI), the number of the parent title or parent application and the date of grant of the parent title or filing of the parent application;
 - (vi) if, in Box No. VI, there are more than five earlier applications whose priority is claimed: in such case, write "Continuation of Box No. VI" and indicate for each additional earlier application the same type of information as required in Box No. VI.
2. If, with regard to the precautionary designation statement contained in Box No. V, the applicant wishes to exclude any State(s) from the scope of that statement: in such case, write "Designation(s) excluded from precautionary designation statement" and indicate the name or two-letter code of each State so excluded.

Continuation of Box IV:
 NEEDLE, William H. (26,209); ROSENBERG, Sumner C. (28,753); PERRYMAN, David G. (33,438); KATZ, Mitchell A. (33,919); KIRSCH, Gregory J. (35,572); SPRATT, Gwendolyn D. (36,016); JOHNSON, William R. (32,875); LONG, William F. (51,967); MAXWELL, Lawrence D. (35,276); HUTTER, Jacqueline M. (44,792); MCKEON, Tina W. (43,791); ADES, Patricia L. (44,496); BECKER, Bruce H. (48,884); DECARLO, Kean J. (39,956); HODGES, Robert A. (41,074); HUIZENGA, David E. (49,026); MEADOWS, Brian C. (50,848); MEDLIN, Jennifer P. (41,385); MURPHY, Mark A. (42,915); ZIDAR, Bernard L. (48,620); CORIN, Shari J. (46,243); FERNANDEZ, Lizette M. (46,694); VILLANUEVA, Lawrence A. (43,968); and CURFMAN, Christopher L. (52,787) all of NEEDLE & ROSENBERG, P.C., 999 Peachtree Street, Suite 1000, Atlanta, Georgia 30309-3915 United States of America

Box No. VI PRIORITY CLAIM

The priority of the following earlier application(s) is hereby claimed:

| Filing date of earlier application (day/month/year) | Number of earlier application | Where earlier application is: | | |
|---|----------------------------------|--|---|--|
| | | national application: country or Member of WTO | regional application: [*] regional Office | international application: receiving Office |
| item (1) 31 October 2002 (31/10/02) | 60/423,340 | US | | |
| item (2) | | | | |
| item (3) | | | | |
| item (4) | | | | |
| item (5) | | | | |

 Further priority claims are indicated in the Supplemental Box.

The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) (only if the earlier application was filed with the Office which for the purposes of this international application is the receiving Office) identified above as:

all items item (1) item (2) item (3) item (4) item (5) other, see
Supplemental Box

* Where the earlier application is an ARIPO application, indicate at least one country party to the Paris Convention for the Protection of Industrial Property or one Member of the World Trade Organization for which that earlier application was filed (Rule 4.10(b)(ii)):

Box No. VII INTERNATIONAL SEARCHING AUTHORITY

Choice of International Searching Authority (ISA) (if two or more International Searching Authorities are competent to carry out the international search, indicate the Authority chosen; the two-letter code may be used):

ISA / US

Request to use results of earlier search; reference to that search (if an earlier search has been carried out by or requested from the International Searching Authority):

Date (day/month/year) Number Country (or regional Office)

Box No. VIII DECLARATIONS

The following declarations are contained in Boxes Nos. VIII (i) to (v) (mark the applicable check-boxes below and indicate in the right column the number of each type of declaration):

Number of declarations

| | | |
|---|--|---|
| <input type="checkbox"/> Box No. VIII (i) | Declaration as to the identity of the inventor | : |
| <input type="checkbox"/> Box No. VIII (ii) | Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent | : |
| <input type="checkbox"/> Box No. VIII (iii) | Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application | : |
| <input type="checkbox"/> Box No. VIII (iv) | Declaration of inventorship (only for the purposes of the designation of the United States of America) | : |
| <input type="checkbox"/> Box No. VIII (v) | Declaration as to non-prejudicial disclosures or exceptions to lack of novelty | : |

Box No. IX CHECK LIST; LANGUAGE OF FILING

| | | | | |
|--|-------|---|--|-----------------|
| This international application contains: | | This international application is accompanied by the following item(s) (mark the applicable check-boxes below and indicate in right column the number of each item): | | Number of items |
| (a) In paper form, the following number of sheets: | | 1. <input checked="" type="checkbox"/> fee calculation sheet 2. <input type="checkbox"/> original separate power of attorney 3. <input type="checkbox"/> original general power of attorney 4. <input checked="" type="checkbox"/> copy of general power of attorney; reference number, if any: 5. <input type="checkbox"/> statement explaining lack of signature 6. <input type="checkbox"/> priority document(s) identified in Box No. VI as item(s): 7. <input type="checkbox"/> translation of international application into (language): 8. <input type="checkbox"/> separate indications concerning deposited microorganism or other biological material 9. <input checked="" type="checkbox"/> sequence listings in computer readable form (indicate type and number of carriers) | | |
| request (including declaration sheets) | : 6 | | | |
| description (excluding sequence listings and/or tables related thereto) | : 70 | | | |
| claims | : 2 | | | |
| abstract | : 1 | | | |
| drawings | : 12 | | | |
| Sub-total number of sheets | : 91 | | | |
| sequence listings | : 33 | | | |
| tables related thereto | | | | |
| (for both, actual number of sheets if filed in paper form, whether or not also filed in computer readable form; see (c) below) | | | | |
| Total number of sheets | : 124 | | | |
| (b) <input type="checkbox"/> only in computer readable form (Section 801(a)(i)) | | | | |
| (i) <input type="checkbox"/> sequence listings | | | | |
| (ii) <input type="checkbox"/> tables related thereto | | | | |
| (c) <input checked="" type="checkbox"/> also in computer readable form (Section 801(a)(ii)) | | | | |
| (i) <input checked="" type="checkbox"/> sequence listings | | | | |
| (ii) <input type="checkbox"/> tables related thereto | | | | |
| Type and number of carriers (diskette, CD-ROM, CD-R or other) on which are contained the | | | | |
| <input checked="" type="checkbox"/> sequence listings: 1. diskette | | | | |
| <input type="checkbox"/> tables related thereto: (additional copies to be indicated under items 9(ii) and/or 10(ii), in right column) | | | | |
| Figure of the drawings which should accompany the abstract: | | Language of filing of the international application: | | English |

Box No. X SIGNATURE OF APPLICANT, AGENT OR COMMON REPRESENTATIVE

Next to each signature, indicate the name of the person signing and the capacity in which the person signs (if such capacity is not obvious from reading the request).



David E. Huienga, Agent

Reg. No. 49,026

(31.10.03)

For receiving Office use only

| | | | |
|---|---|--|--|
| 1. Date of actual receipt of the purported international application: | DT04 Rec'd PCT/PTO 31 OCT 2003 | | 2. Drawings: |
| 3. Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application: | | | <input type="checkbox"/> received: <input type="checkbox"/> not received: |
| 4. Date of timely receipt of the required corrections under PCT Article 11(2): | | | |
| 5. International Searching Authority (if two or more are competent): ISA / US | 6. <input type="checkbox"/> Transmittal of search copy delayed until search fee is paid | | |

For International Bureau use only

Date of receipt of the record copy by the International Bureau:

PCT

FEE CALCULATION SHEET
Annex to the Request

For receiving Office use only

PCT/US 03/34636

International Application No.

Applicant's or agent's
file reference

21108.0017P1

Date stamp of the receiving Office

31.10.03

Applicant

University of Rochester

CALCULATION OF PRESCRIBED FEES

1. TRANSMITTAL FEE

240.00 T

240

2. SEARCH FEE

700.00 S

700

International search to be carried out by ISA/US

(If two or more International Searching Authorities are competent to carry out the international search, indicate the name of the Authority which is chosen to carry out the international search.)

3. INTERNATIONAL FEE

Basic Fee

Where items (b) and/or (c) of Box No. IX apply, enter Sub-total number of sheets } 124
Where items (b) and (c) of Box No. IX do not apply, enter Total number of sheets }

b1 first 30 sheets 407.00 b1

b2 94 x 9.00 - 846.00 b2
number of sheets in excess of 30

b3 additional component (only if sequence listings and/or tables related thereto are filed in computer readable form under Section 801(a)(i), or both in that form and on paper, under Section 801(a)(ii)):

400 x _____ = b3
fee per sheet

Add amounts entered at b1, b2 and b3 and enter total at B 1253.00 B

476

1128

0

1604

520

2124

Designation Fees
The international application contains 120 designations.

5 x 88.00 = 440.00 D
number of designation fees x amount of designation fee
payable (maximum 5)

Add amounts entered at B and D and enter total at I 1693.00 I

(Applicants from certain States are entitled to a reduction of 75% of the international fee. Where the applicant is (or all applicants are) so entitled, the total to be entered at I is 25% of the sum of the amounts entered at B and D.)

4. FEE FOR PRIORITY DOCUMENT (if applicable)

20.00 P

20

5. TOTAL FEES PAYABLE

2653.00

3084

Add amounts entered at T, S, I and P, and enter total in the TOTAL box

TOTAL

The designation fees are not paid at this time.

MODE OF PAYMENT

authorization to charge
deposit account (see below)

postal money order

cash

coupons

cheque

bank draft

revenue stamps

other (specify): PTO Form 2038

AUTHORIZATION TO CHARGE (OR CREDIT) DEPOSIT ACCOUNT

(This mode of payment may not be available at all receiving Offices)

Receiving Office: RO/ US

Authorization to charge the total fees indicated above.

Deposit Account No.: 14-0629

(This check-box may be marked only if the conditions for deposit accounts of the receiving Office so permit) Authorization to charge any deficiency or credit any overpayment in the total fees indicated above.

Date: October 31, 2003

Authorization to charge the fee for priority document.

Name: David E. Huizenga

Signature: D E E Y - 7 -

PCT

GENERAL POWER OF ATTORNEY

(for several international applications filed under the Patent Cooperation Treaty)

(PCT Rule 90.5)

The undersigned person(s) :

(Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)

UNIVERSITY OF ROCHESTER
 601 Elmwood Avenue, Box 706
 Rochester, New York 14642
 United States of America

hereby appoint(s) the following person as:

 agent common representative

Name and address

(Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)

NEEDLE, William H. (26,209); ROSENBERG, Sumner C. (28,753); PERRYMAN, David G. (33,438); KATZ, Mitchell A. (33,919); KIRSCH, Gregory J. (35,572); SPRATT, Gwendolyn D. (36,016); FAILS, Charles H. (37,616); LONG, William F. (51,967) MAXWELL, Lawrence D. (35,276); HUTTER, Jacqueline M. (44,792); MCKEON, Tina W. (43,791); TEMPEL, Michael J. (41,344); ADES, Patricia L. (44,496); BECKER, Bruce H. (48,884); DECARLO, Kean J. (39,956); HODGES, Robert A. (41,074); HUIZENGA, David E. (49,026); MEADOWS, Brian C. (50,848); MEDLIN, Jennifer P. (41,385); MURPHY, Mark A. (42,915); ZIDAR, Bernard L. (48,620); CORIN, Shari J. (46,243); FERNANDEZ, Lizette M. (46,694); VILLANUEVA, Lawrence A. (43,968); and CURFMAN, Christopher L. (52,787) all of NEEDLE & ROSENBERG, P.C., Suite 1000, 999 Peachtree Street, Atlanta, Georgia 30309-3915 United States of America

to represent the undersigned before

 all the competent International Authorities the International Searching Authority only the International Preliminary Examining Authority only

in connection with any and all international applications filed by the undersigned with the following Office

U.S. Patent & Trademark Office

as receiving Office

and to make or receive payments on behalf of the undersigned.

Signature(s) (where there are several persons, each of them must sign; next to each signature, indicate the name of the person signing and the capacity in which the person signs, if such capacity is not obvious from reading this power):

Marjorie D. Hunter
SignatureMarjorie D. Hunter Esq.
Director, Technology Transfer URMC
Printed Name of Signatory
University of Rochester

Title

Date: 8-4-03